

Advances in Mobility Management for IP Networks

Editors:

Aisha Hassan Abdalla Hashim

Othman Khalifa

Shihab A. Hameed



IIUM PRESS

INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

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IIUM Press

Published by:

IIUM Press
International Islamic University Malaysia

First Edition, 2011
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Perpustakaan Negara Malaysia

Cataloguing-in-Publication Data

Aisha Hassan Abdalla Hashim, Othman Khalifa, Shihab A. Hameed: Advances in Mobility Management for IP Networks

ISBN: 978-967-418-140-6

Member of Majlis Penerbitan Ilmiah Malaysia – MAPIM
(Malaysian Scholarly Publishing Council)

Printed by :

IIUM PRINTING SDN.BHD.

No. 1, Jalan Industri Batu Caves 1/3

Taman Perindustrian Batu Caves

Batu Caves Centre Point

68100 Batu Caves

Selangor Darul Ehsan

Tel: +603-6188 1542 / 44 / 45 Fax: +603-6188 1543

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QUALITATIVE STUDY OF MOBILITY MANAGEMENT APPROACHES

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9.1 INTRODUCTION

The researchers are working to improve hierarchical and fast handovers solutions as experimental protocols. This is because, it is acknowledged that both are important solutions but much more practical experience with these protocols is needed to discover its properties and usefulness in particular circumstances. Even the combination of both proposals is considered a possibility solution. But this combination means an important network complexity that should be avoided if possible.

9.2 QUALITATIVE STUDY

Work in [1] gives a qualitative and quantitative review of current handover approaches of IP mobility management protocols with an objective to introduce a new way of further optimizing the handover performance. In particular, the chapter focuses on handover approaches of mobile IPv6 (MIPv6) based mobility management protocols. Thus, the need, benefits, and limitations of these handover approaches are explored. Thereafter, dynamic handover coordination is introduced as a new viable solution that exploits the benefits and mitigates the limitations of these handover approaches hence improving handover performance in terms of handover delay, packet loss, and signaling overhead. Fig. 9.1 the mobility management research done in [1].